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SUMMARY OF CONFIRMED INFECTIONS

March 2017

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Syphilis

Test	Total	Test	Total
RPR Reactive	4	Darkfield Reactive	0
VDRL Reactive	38	TP-PA Reactive	22

New Cases of Syphilis

Stage	Number of Cases	
	March 2017	March 2016
Primary syphilis	0	0
Secondary syphilis	0	3
Early latent	2	2
Late latent	2	0
Total	4	5

Source: Wisconsin Division of Health

Gonorrhea Antimicrobial Susceptibility Testing

Number Tested	Non-Susceptible (NS) / Decreased Susceptible (DS) / Resistant (R) Antibiotics			
	Ciprofloxacin	Cefixime	Ceftriaxone	Azithromycin
50	4 (R)	0	0	0

Reference Cultures

Age	Sex	Source	Identification
22	M	Stool	<i>Salmonella braenderup</i>

DNA Sequencing: The MHD laboratory uses 16S rRNA and the D2 region of the 26S rRNA genes for DNA sequence-based microbial identification of selective reference bacteria and fungal isolates.

Age	Sex	Source	Target gene	Final Identification
23	M	Blood	16S rRNA	<i>Lactobacillus</i> species (<i>L. pentosus</i>)
67	F	Blood	16S rRNA	<i>Lactobacillus</i> species (<i>L. rhamnosus</i>)
52	F	Sputum	16S rRNA	<i>Corynebacterium pseudodiphtheriticum</i>
69	F	Sputum	16S rRNA	<i>Corynebacterium pseudodiphtheriticum</i>

Molecular Amplification

Agent	Method	Tested	Positives	Percent (%)
Norovirus	Real time RT-PCR	17	4	24
Mumps virus	Real time RT-PCR	11	1	9
<i>Bordetella pertussis</i>	Real time PCR	14	0	0
Influenza virus	Real time RT-PCR	17	15	88
Herpes simplex virus	Real time PCR	42	12	29

Chlamydia trachomatis (CT), *Neisseria gonorrhea* (GC), and *Trichomonas vaginalis* (Trich) Nucleic Acid Amplification

Source	CT			GC			Trich		
	Tested	Positives	Percent (%)	Tested	Positives	Percent (%)	Tested	Positives	Percent (%)
Urine	576	60	10	576	39	7	356	38	11
Throat	451	8	2	505	31	6			
Rectal	161	19	12	161	13	8			
Vaginal							88	23	26

Virus/*Chlamydia trachomatis* Isolation from Clinical Specimens

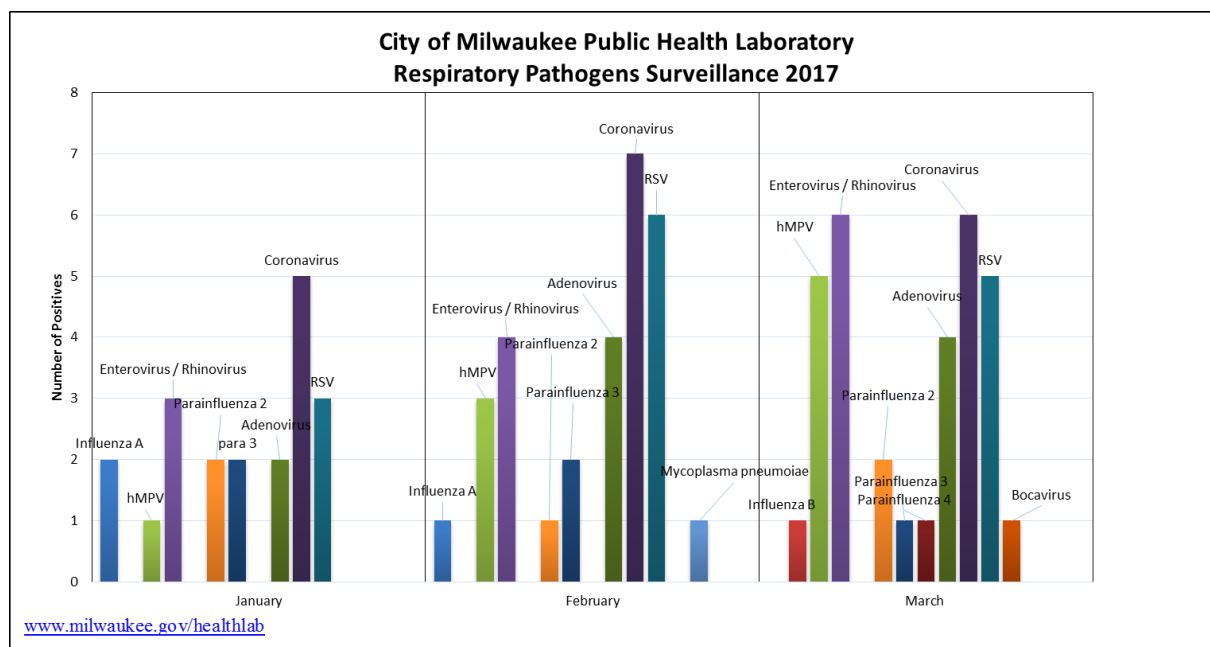
Agent	Virus Isolated in Culture		
	Throat	Virus swab – Other*	Isolates (Total %)
Adenovirus	0	2	6
Rhinovirus	0	1	3
Respiratory Syncytial Virus	2	2	13
Influenza B	1	0	3

* Includes lung, NP/Throat combined, Cytomegalovirus(CMV) shell vials, and unspecified sources
Specimens tested for virus: n = 31 (March 2017); Specimen tested for *Chlamydia* detection in culture: n = 4 (March 2017)

Respiratory Pathogens Surveillance:

Respiratory Pathogen Panel Test Results		
Virus	Positives	Percent (%)
Human Adenovirus	4	15
Enterovirus/Rhinovirus	6	23
Respiratory Syncytial Virus	4	15
Human metapneumovirus	5	19
Human Coronavirus	5	19
Human parainfluenza 1-3	2	8
Human Bocavirus	1	4
Human parainfluenza 4	1	4

Specimens tested: n = 26 (March 2017 – Not including Influenza PCR data)



Note: The MHDL provides comprehensive detection of multiple respiratory viruses and their subtypes: Influenza A, Influenza B, Respiratory Syncytial Virus (RSV), Human Metapneumovirus (hMPV), Enterovirus/ Rhinovirus (ENT/HRV), Adenovirus, Parainfluenza (HPIV 1-4), Coronavirus and Boca viruses. The bacterial targets include *Chlamydia pneumoniae*, *Mycoplasma pneumoniae*, and *Legionella pneumophila*.